No. 7400002

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

## Soybean Research Foundation, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF seventeen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS IFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'SRF 200'

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the* Plant Variety Protection Office *to be affixed at the City of* Washington *this* 24th *day of* January *in the year of our Lord one thousand nine hundred and* seventy-four

*Attest:*

*Commissioner*
*Plant Variety Protection Office*
*Grain Division*
*Agricultural Marketing Service*

*Secretary of Agriculture*

FORM GR-470
(12-15-72)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

FORM APPROVED
OMB NO. 40-R3712

# APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: *See Reverse.*

| 1. VARIETY NAME OR TEMPORARY DESIGNATION | 2. KIND NAME | FOR OFFICIAL USE ONLY |
|---|---|---|
| SRF 200 | Soybeans | PV NUMBER 7400002 |
| 3. GENUS AND SPECIES NAME | 4. FAMILY NAME *(Botanical)* | FILING DATE 7-27-73 / TIME 3:00 P.M. |
| Glycine max (L.) Merr. | Leguminosae | FEE RECEIVED $250.00 $250.00 $250.00 / BALANCE DUE $ — $ — $ — |
| | 5. DATE OF DETERMINATION: April, 1971 | |

| 6. NAME OF APPLICANT(S) | 7. ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)* | 8. TELEPHONE AREA CODE AND NUMBER |
|---|---|---|
| Soybean Research Foundation, Inc. | P.O. Box #72<br>Mason City, Illinois 62664 | 217 482-3219 |

| 9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: *(Corporation, partnership, association, etc.)* | 10. STATE OF INCORPORATION | 11. DATE OF INCORPORATION |
|---|---|---|
| Corporation | Illinois | April 28, 1965 |

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:

Arnold L. Matson
Director of Soybean Breeding
Soybean Research Foundation, Inc.
Mason City, Illinois 62664

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- [X] 13A. Exhibit A, Origin and Breeding History of the Variety *(See Section 52 of the Plant Variety Protection Act.)*
- [X] 13B. Exhibit B, Botanical Description of the Variety
- [X] 13C. Exhibit C, Objective Description of the Variety
- [X] 13D. Exhibit D, Data Indicative of Novelty
- [X] 13E. Exhibit E, Statement of the Basis of Applicant's Ownership

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? *(See Section 83(a). (If "Yes," answer 14B and 14C below.)* [X] YES [ ] NO

14B. Does the applicant(s) specify that this variety be limited as to number of generations? [X] YES [ ] NO

14C. If "Yes," to 14B, how many generations of production beyond breeder seed? [X] FOUNDATION [X] REGISTERED [X] CERTIFIED

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.

*The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is distinct, uniform, and stable as required in Section 41 and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.*

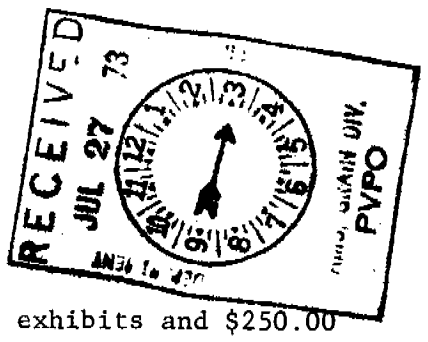
Applicant is informed that false representation herein can jeopardize protection and result in penalties.

July 23, 1973
(DATE)

Arnold L Matson
(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)




## INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and $250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, 6525 Belcrest Road, Hyattsville, Maryland 20782. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

5 Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.

13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.

13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.

13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.

13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.

13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

FORM GR-470-2
(6-15-72)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

EXHIBIT C
*(Soybean)*

# OBJECTIVE DESCRIPTION OF VARIETY
## SOYBEAN *(GLYCINE MAX)*

INSTRUCTIONS: *See Reverse.*

NAME OF APPLICANT(S)

Soybean Research Foundation, Inc.

ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code)*

P.O. Box #72
Mason City, Illinois 62664

FOR OFFICIAL USE ONLY

PVPO NUMBER

VARIETY NAME OR TEMPORARY DESIGNATION

SRF 200

Place the appropriate number that describes the varietal character of this variety in the boxes below.

**1. SEED SHAPE:**
[1] 1 = SPHERICAL 2 = SPHERICAL FLATTENED 3 = ELONGATE 4 = OTHER *(Specify)*

**2. SEED COAT COLOR:**
[1] 1 = YELLOW 2 = GREEN 3 = BROWN 4 = BLACK 5 = OTHER *(Specify)* ____
SHADE: [ ] 1 = LIGHT 2 = MEDIUM 3 = DARK

**3. SEED COAT LUSTER:**
[2] 1 = DULL 2 = SHINY

**4. SEED SIZE**
[1][6] GRAMS PER 100 SEEDS

**5. HILUM COLOR.**
[2] 1 = BUFF 2 = YELLOW 3 = BROWN 4 = GRAY 5 = IMPERFECT BLACK 6 = BLACK 7 = OTHER *(Specify)* ____
SHADE: [ ] 1 = LIGHT 2 = MEDIUM 3 = DARK

**6. COTYLEDON COLOR:**
[1] 1 = YELLOW 2 = GREEN

**7. LEAFLET SIZE** *(See Reverse)*:
[2] 1 = SMALL 2 = MEDIUM 3 = LARGE

**8. LEAFLET SHAPE:**
[3] 1 = OVATE 2 = OBLONG 3 = LANCEOLATE 4 = ELLIPTICAL 5 = OTHER *(Specify)* ____

**9. LEAF COLOR** *(See reverse)*:
[2] 1 = LIGHT GREEN 2 = MEDIUM GREEN 3 = DARK GREEN

**10. FLOWER COLOR:**
[2] 1 = WHITE 2 = PURPLE 3 = OTHER *(Specify)* ____

**11. POD COLOR:**
[1] 1 = TAN 2 = BROWN 3 = BLACK

**12. POD SET:**
[ ] 1 = SCATTERED 2 = CONCENTRATED

**13. PLANT PUBESCENCE COLOR:**
[1] 1 = GRAY 2 = BROWN 3 = OTHER *(Specify)* ____
SHADE: [ ] 1 = LIGHT 2 = MEDIUM 3 = DARK

**14. PLANT TYPES** *(See Reverse)*:
[1] 1 = SLENDER 2 = BUSHY 3 = INTERMEDIATE

**15. PLANT HABIT:**
[2] 1 = DETERMINATE 2 = INDETERMINATE 3 = OTHER *(Specify)* ____

**16. HYPOCOTYL COLOR:**
[2] 1 = GREEN 2 = PURPLE

**17. SEED PROTEIN:**
[ ] 1 = A 2 = B

**18. NUMBER OF DAYS TO FLOWERING** *(Place a zero in first box (e.g. [0][9]) when days are 9 or less.)*
[ ][ ]

**19. MATURITY GROUP:**
[4] 1 = 00 2 = 0 3 = I 4 = II 5 = III 6 = IV 7 = V 8 = VI 9 = VII 10 = VIII

**20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT** *(Growth Chamber)* **AT 25° C.** *(Place a zero in first box (e.g. [0][2]) when size is 9 mm. or less.)*
[ ][ ][ ] MM. LENGTH OF SEEDLING
[ ][ ] MM. LENGTH OF COTYLEDON
[ ][ ] MM. WIDTH OF COTYLEDON

**21. DISEASE:** *(Enter 0 - Not Tested; 1 - Susceptible; 2 - Resistant)*

| | | | | | |
|---|---|---|---|---|---|
| [0] BACTERIAL PUSTULE | [0] SOYBEAN CYST | [0] DOWNY MILDEW | [0] PURPLE STAIN | [0] POD AND STEM BLIGHT | [0] ROOT KNOT |
| [0] FROGEYE | [0] STEM CANKER | [2] PHYTO-PHTHORA | [0] BROWN STEM ROT | [0] TARGET SPOT | [0] BROWN SPOT |
| [0] BUD BLIGHT | [0] WILDFIRE | [0] RHIZOCTONIA ROT | [0] OTHER *(Specify)* ____ | | |

SRF 200

Exhibit A -

"SRF 200" soybeans was developed by bulking seed from 2900 $F_4$ plants originating from $F_3$ plants whose progeny were all resistant to phytophthora root rot, race 1 from the cross X68-136 x Amsoy 71. The parentage of X68-136 is Amsoy x [$Wayne_3$ x ($Dorman_5$ x PI181537)]. The progeny of the 2900 plants were grown in plant progeny rows before bulking and they appeared to be uniform for plant type.

Exhibit B -

Seed is spherical, seed coat is shiny yellow, the hilum is yellow, pods are tan, trifoliate leaves are lanceolate in shape, flowers are purple, and pubescence is gray. The growth habit is indeterminate. It is of Group II maturity. SRF 200 is very similar to Amsoy 71 in plant type, seed coat color, flower color, disease resistance, and maturity. It differs from Amsoy 71 mainly in leaf shape, seed size, and number of seeds per pod. Leaf shape of SRF 200 is lanceolate, Amsoy 71 - ovate, seed size 2800 per lb. compared to 2500 per lb. for Amsoy 71. SRF 200 will have a considerable number of 4 seeded pods, the % of which will vary with rate of planting, soil type, and season but in all cases will be higher than Amsoy 71 grown under same conditions. An occasional 5 seeded pod will be found in SRF 200. 5 seeded pods are very rare in Amsoy 71 if they occur at all. Like Amsoy 71, SRF 200 is resistant to Phytophthora root rot, race 1 (Phytophthora megasperma var. sojae).

Exhibit D -

SRF 200 is very similar to its parent, Amsoy 71, except that (1) the trifoliate leaves are lanceolate in shape, (2) the seed size is slightly smaller, and (3) a larger percentage of its pods bear 4 seeds. Also an occasional 5 seeded pod may be found.

Exhibit E -

The Soybean Research Foundation is employer of the breeder, Dr. Arnold L. Matson, and is therefore the sole owner of the 'SRF 200" variety of soybean.

FORM GR-470-2 (REVERSE)

22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

| CHARACTER | NAME OF VARIETY | CHARACTER | NAME OF VARIETY |
|---|---|---|---|
| Plant shape | Amsoy 71 | Petiole angle | Amsoy 71 |
| Leaf shape | SRF 150 | Seed size | Corsoy |
| Leaf color | Amsoy 71 | Seed shape | Amsoy 71 |
| Leaf surface | Amsoy 71 | Seedling pigmentation | Amsoy 71 |

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY:

| VARIETY | NO. OF DAYS TO MATURITY | LODGING SCORE | PLANT HEIGHT | LEAF SIZE | | CONTENT | | AVERAGE NO. OF PODS PER PLANT | IODINE NO. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Width | Length | Protein | Oil | | |
| Submitted | 127 | 2.8 | 44" | 55 mm | 133mm | 38.6 | 22.6 % | | |
| Name of similar variety Amsoy 71 | 128 | 2.8 | 46" | 82 mm | 108mm | 40.4 | 22.6 | | |

## INSTRUCTIONS

**GENERAL:** The following publications may be used as a reference aid for completing this form:

1. Scott, Walter O. and Samuel R. Aldrich, 1970, Modern Soybean Production, The Farmer Quarterly.
2. Norman, A. G., 1963, The Soybean: Genetics, Breeding, Physiology, Nutrition, Management.
3. McKie, J. W., and K. L. Anderson, 1970, The Soybean Book.

**LEAF COLOR:** Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following Soybean varieties may be used as a guide to identify the colors listed on the form.

| COLOR | VARIETY |
|---|---|
| Light Green | "Ada" |
| Medium Green | "Wilkin" |
| Dark Green | "Swift" |

**LEAF SIZE:** The following varieties may be used as a guide to identify the relative size leaves.

| SIZE | VARIETY |
|---|---|
| Small | "Amsoy" |
| Medium | "Bonus" |
| Large | "Anoka" |

**PLANT TYPE:** The following varieties may be used as a guide to identify the plant type.

| TYPE | VARIETY |
|---|---|
| Slender | "Vansoy" |
| Intermediate | "Wirth" |
| Bushy | "Adelphia" |